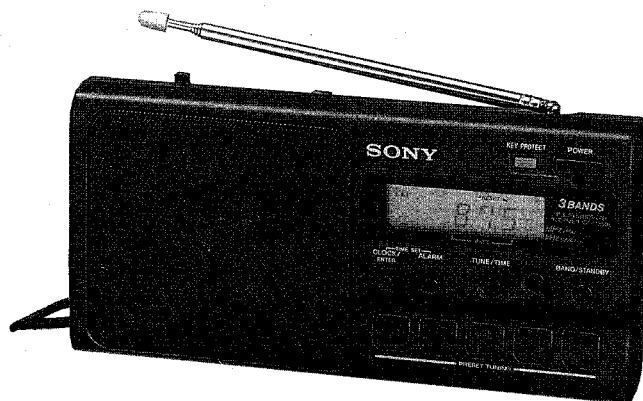


ICF-M350L

SERVICE MANUAL

AEP Model
UK Model



SPECIFICATIONS

Frequency range

FM	87.5–108 MHz (0.05 MHz scan step)
MW	531–1,602 kHz (9 kHz scan step) 530–1,610 kHz (10 kHz scan step)
LW	153–279 kHz (9 kHz scan step)

Intermediate frequency

FM : 10.7 MHz
MW/LW: 450 kHz

Antennas

FM : Telescopic antenna
MW/LW: Built-in ferrite bar antenna

Speaker

Approx. 7.7 cm (3 1/8 inches) dia.

Power output

280 mW (at 10% harmonic distortion)

Output

Earphone jack (minijack)

Power requirements

4.5 V DC

Three R6 (size AA) batteries

DC IN 4.5 V jack accepts:

Sony AC-E45M AC power adaptor (optional)

Sony DCC-E145L car battery cord (optional) for use with 12 V car battery

Battery life

Approx. 15 hours of listening for 4 hours a day at a normal volume using Sony batteries SUM-3 (NS)

Dimensions

Approx. 195×95×32.5 mm (w/h/d)
(7 3/4×3 3/4×1 1/8 inches)
not incl. projecting parts and controls

Weight

Approx. 440 g (15.5 oz) incl. batteries

Supplied accessory

FM antenna coupler (1. Models for Switzerland and Belgium)

Design and specifications subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

FEATURES

- A quartz-controlled PLL(Phase Locked Loop) synthesizer system using a microcomputer for easy pinpoint tuning.
- Up to 5 stations in each band can be preset.
- The tuned frequency is digitally displayed to make searching of the desired station easier.
- The radio can be turned on at the preset time.

Note on MW tuning interval

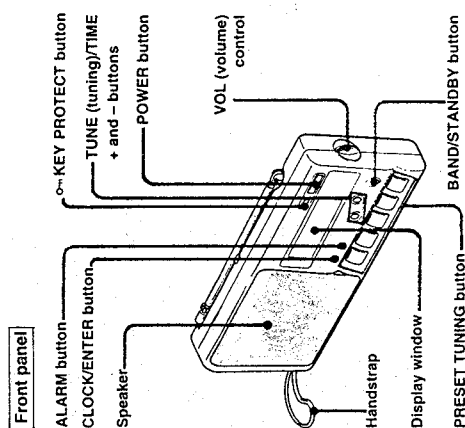
The MW tuning interval differs depending on areas. The tuning interval of this unit is factory-set to 10 KHz or to 9 kHz to match the frequency allocation system of the country as listed. You can change the interval. (See "Changing MW Tuning Interval" on page 2.)

Area	MW tuning interval
North American countries	10 kHz
Other countries	9 kHz

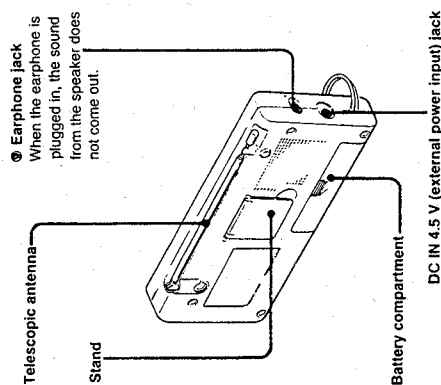
FM/MW/LW 3 BAND
PLL SYNTHESIZED RECEIVER
SONY®



Location and Function of Controls



Rear panel

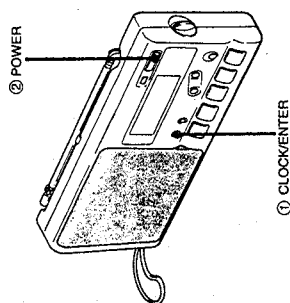


Changing the MW Tuning Interval

- 1 Make sure that the radio is turned off.
- 2 While pressing the CLOCK/ENTER button ①, keep pressing the POWER button ② for more than 5 seconds. The MW tuning interval has been changed. If you proceed step 2 again, the interval changes again.

Note

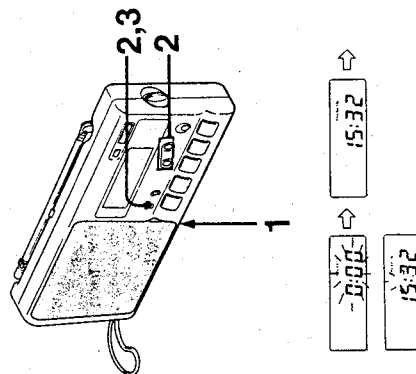
If you proceed with the step above, the clock and the preset memory are erased, and "0:00" flashes.



6

Setting the Clock

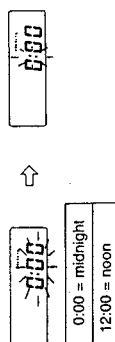
Set the clock or display time when the radio is turned off.



12

7

- 1 When you insert the batteries for the first time, digits flash in the display window. To stop flashing, press the CLOCK/ENTER button.



- 2 While pressing the CLOCK/ENTER button, press the TUNE/TIME + or - button to set the clock to the current time. Each time the button is pressed, the digits move forward or back by one. When you keep the button pressed, the digits change rapidly.

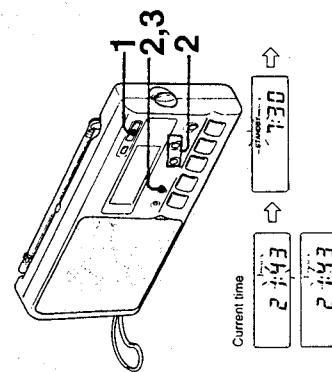
- 3 When you release the CLOCK/ENTER button, the clock starts operating, and "0:00" starts flashing. If you release the CLOCK/ENTER button simultaneously with the time signal as it sounds, the clock starts from zero second.

14

Using the Alarm Function

You can turn the radio on at the preset time. It will be tuned in the station before the radio was turned off. The radio will automatically turn off after about 60 minutes, unless you turn it off.

Setting the Alarm Time



22

15

SECTION 1 GENERAL

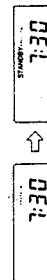
This section is extracted from instruction manual.

- 1 Make sure the radio is turned off.
- 2 While keeping the ALARM button pressed, set the time by pressing the TUNE/TIME + or - button.

While the ALARM button is pressed, the "STANDBY" indication is flashing in the display window.

- 3 Release the ALARM button. The alarm time is set. The indication becomes the current time.

Setting the Alarm



- 1 Make sure the radio is turned off.
- 2 Press the BAND/STANDBY button. The "STANDBY" indication appears in the display window.

To cancel the alarm function Press the BAND/STANDBY button. The "STANDBY" indication disappears.

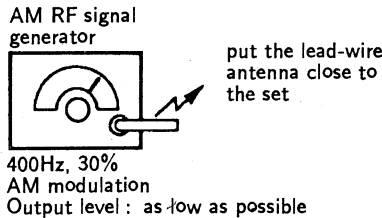
Note

When "0:00" is flashing, you cannot set the alarm time nor set the alarm.

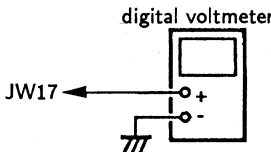
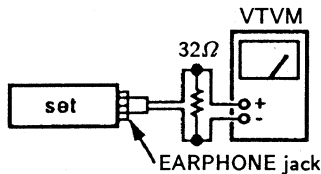
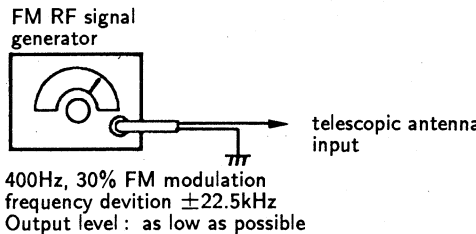
23

SECTION 2
ADJUSTMENTS

AM SECTION



FM SECTION



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ADJUSTMENT		
Adjust for a maximum reading on VTVM.		
T1		450 kHz

MW FREQUENCY COVERAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
CT4	1602 kHz	8 ± 0.1 V
L11	531 kHz	1.50 ± 0.05 V

Note: Not use the AM RF signal generator in this adjustment.

MW TRACKING ADJUSTMENT		
Adjust for a maximum reading on VTVM.		
L8-1		621 kHz
CT2		1395 kHz

LW FREQUENCY COVERAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
CT5	279 kHz	6.8 ± 0.1 V
—	153 kHz	Confirm about 0.9V

Note: Not use the AM RF signal generator in this adjustment.

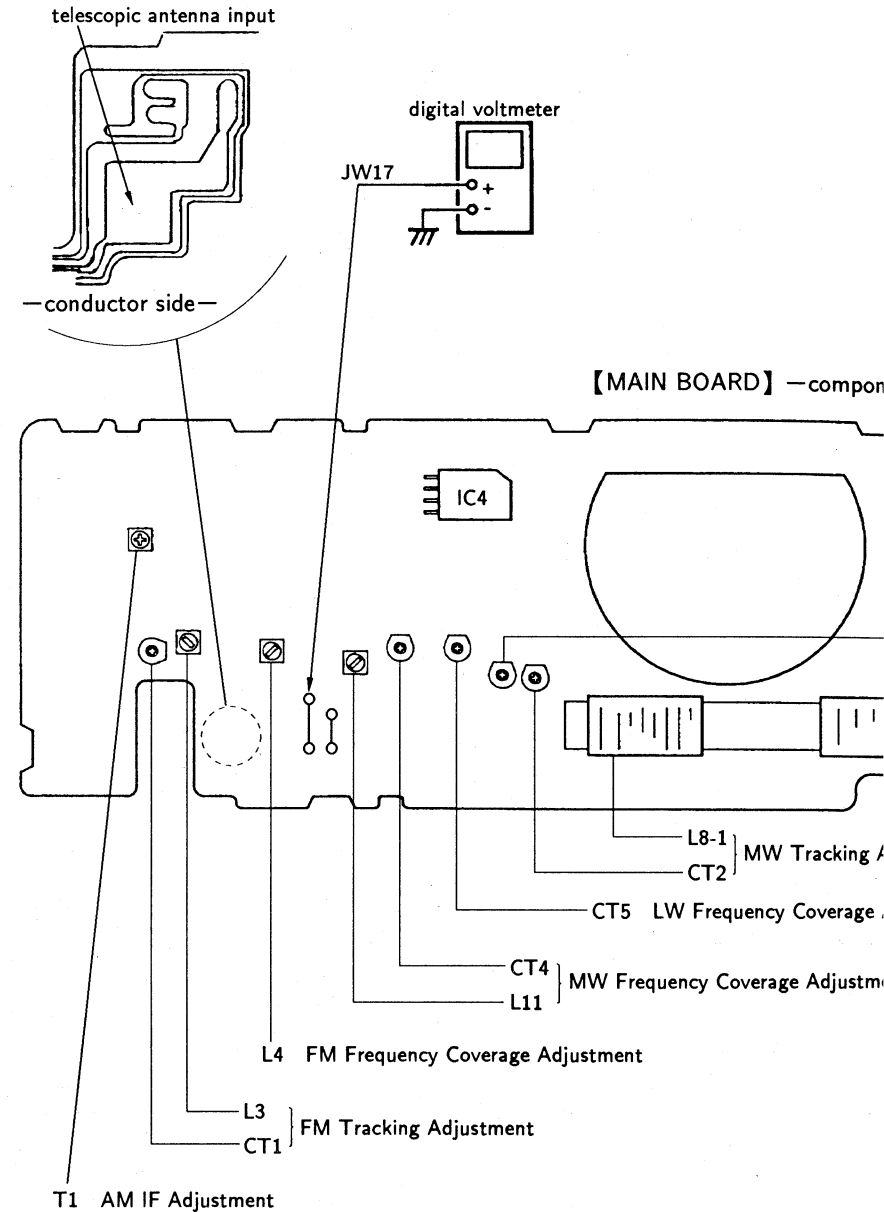
LW TRACKING ADJUSTMENT		
Adjust for a maximum reading on VTVM.		
L8-2		171 kHz
CT3		252 kHz

FM FREQUENCY COVERAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L4	108 MHz	8 ± 0.1 V
—	87.5 MHz	Confirm about 1.25V

Note: Not use the FM RF signal generator in this adjustment.

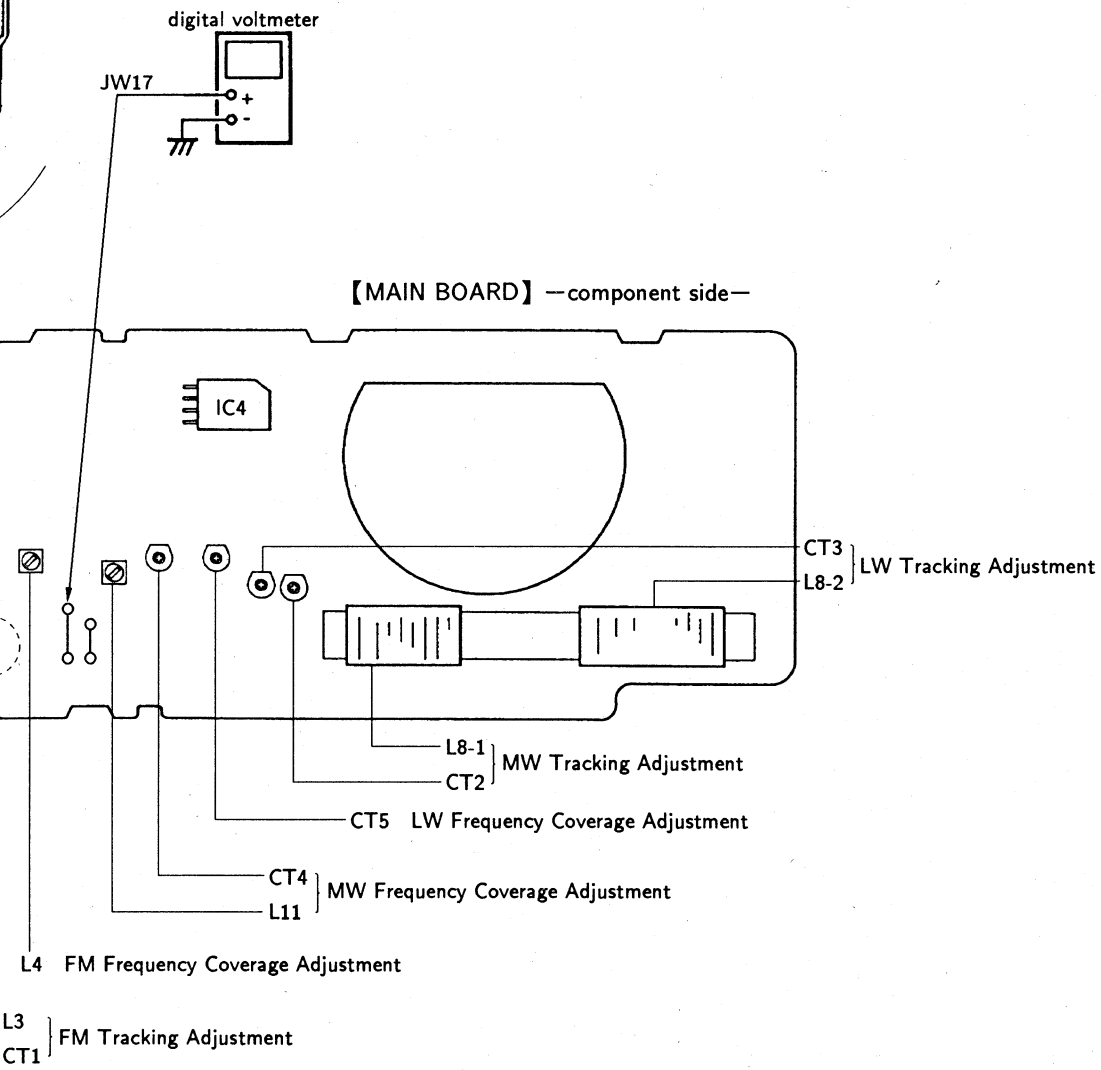
FM TRACKING ADJUSTMENT		
Adjust for a maximum reading on VTVM.		
L3		87.5 MHz
CT1		108 MHz

Adjustment Location

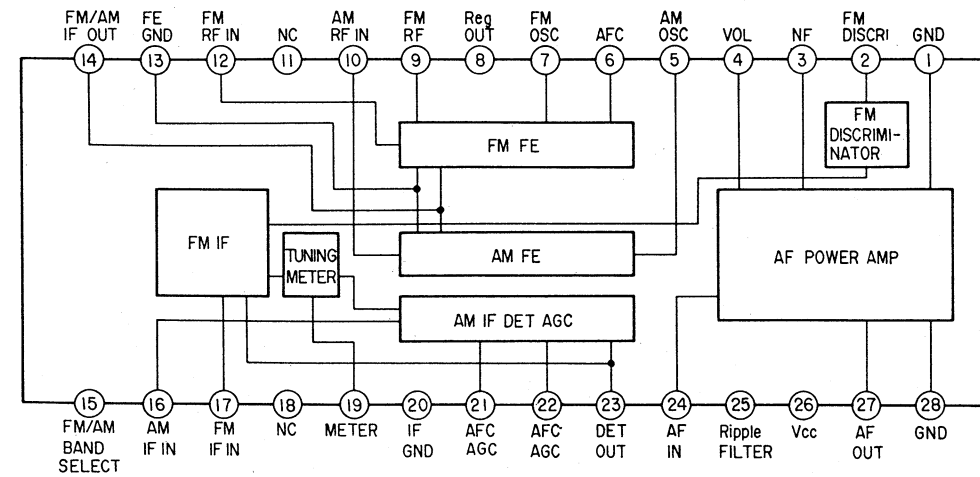


SECTION 3 DIAGRAMS

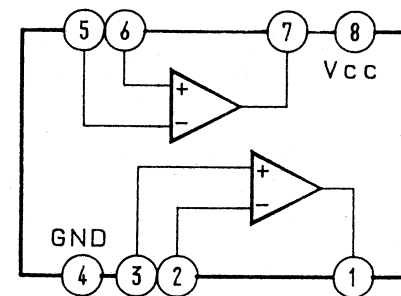
3-1. IC BLOCK DIAGRAMS



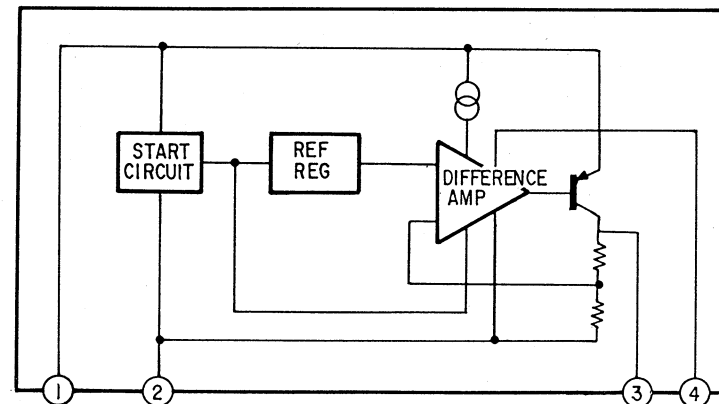
IC1 CXA1019M



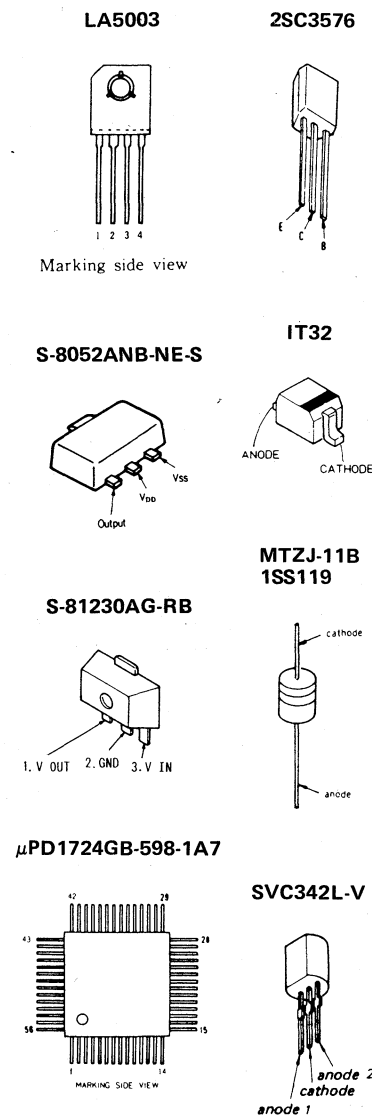
IC2 BA10393F



IC4 LA5003



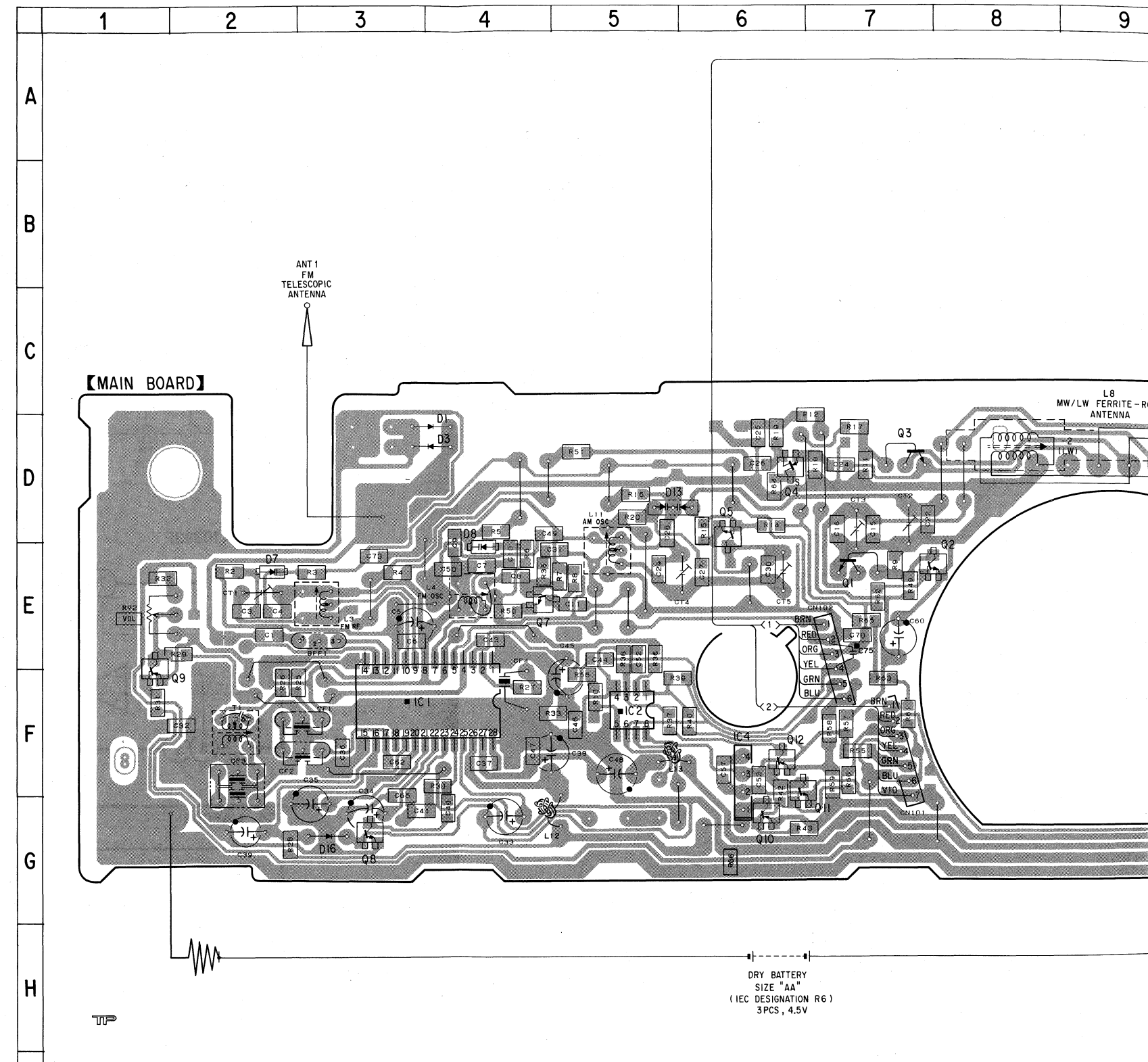
3-2. SEMICONDUCTOR LEAD LAYOUTS



• Semiconductor Location

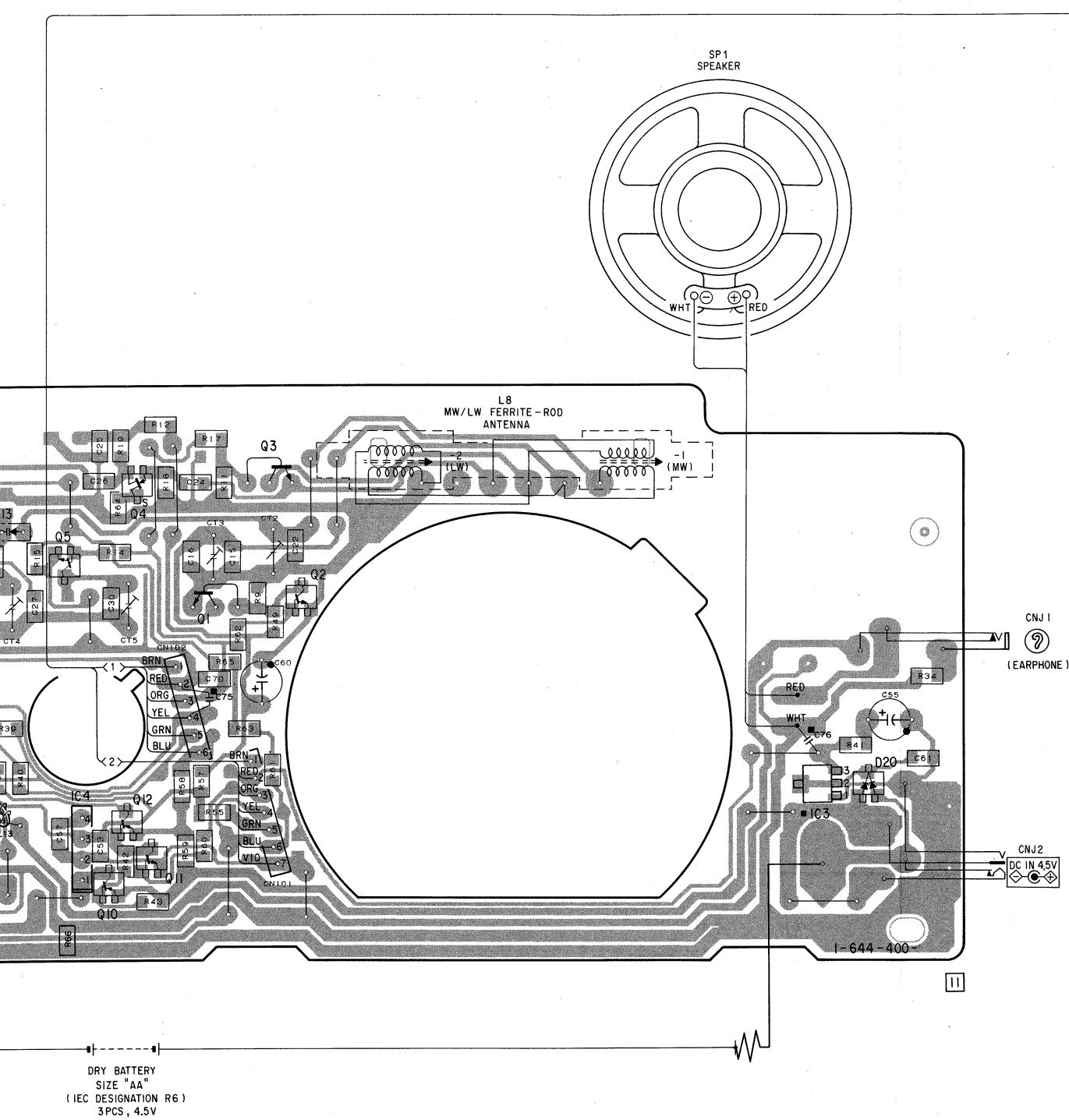
Ref. No.	Location
D1	D-4
D3	D-4
D7	E-2
D8	E-4
D13	D-5
D16	G-3
D20	F-11
D101	C-15
D102	C-14
D103	C-15
D104	C-17
D105	G-15
D106	G-18
D107	F-18
IC1	F-3
IC2	F-5
IC3	F-11
IC4	F-6
IC101	D-16
IC102	F-17
Q1	E-7
Q2	E-7
Q3	D-7
Q4	D-6
Q5	D-6
Q7	E-4
Q8	G-3
Q9	F-1
Q10	G-6
Q11	F-6
Q12	F-6
Q101	F-15
Q102	F-14
Q103	F-14
Q104	G-17
Q105	G-17
Q106	E-15
Q107	F-15

3-3. PRINTED WIRING BOARDS



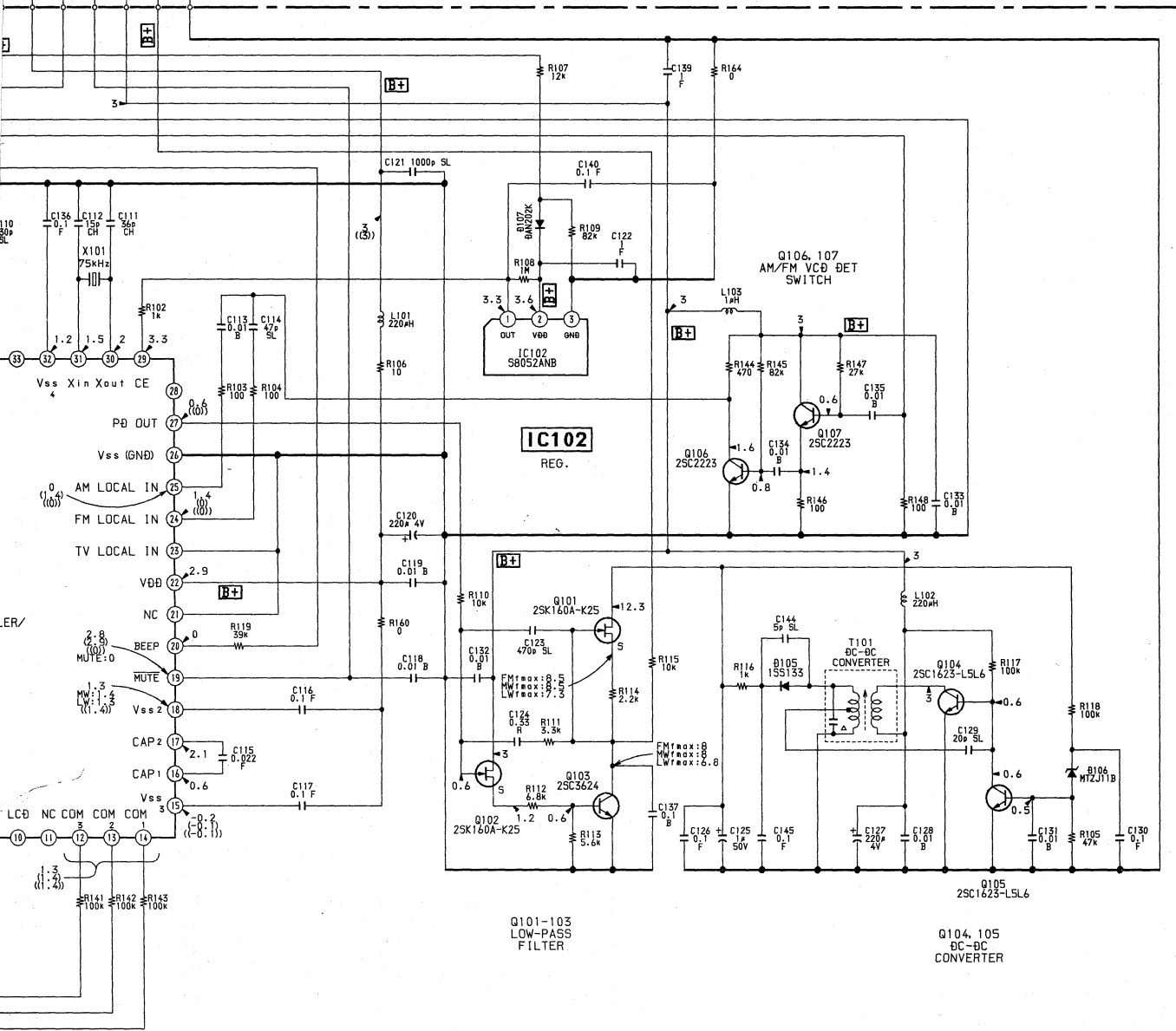
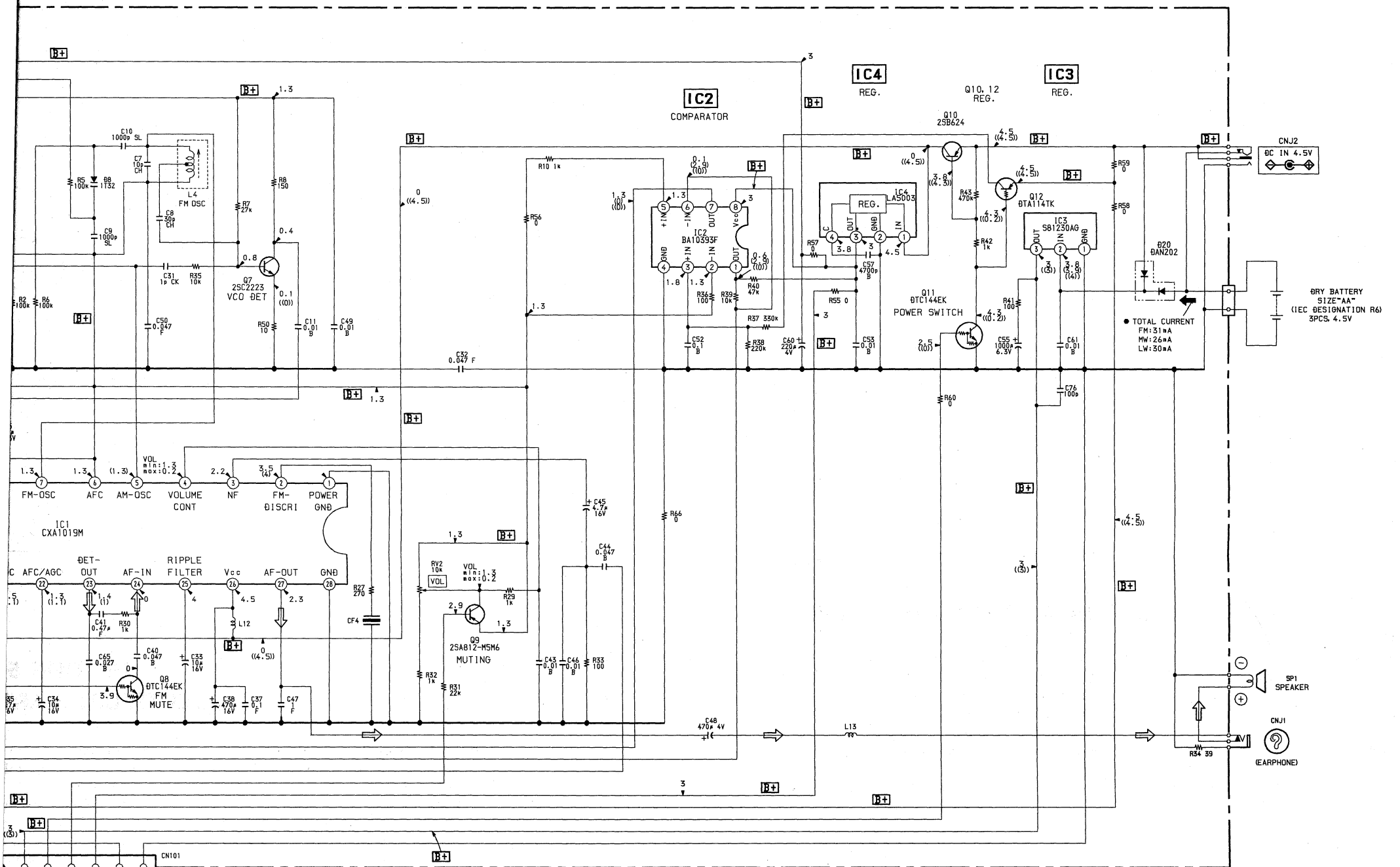
Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts mounted on the conductor side.
- ▨ : Pattern on the side which is seen.



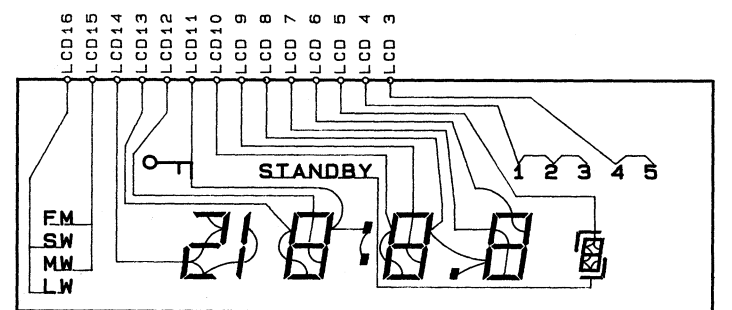
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R



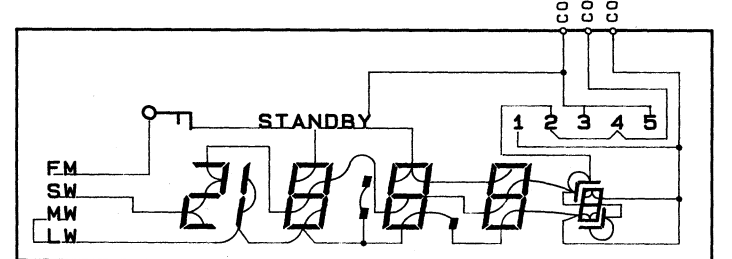


LCD1
LIQUID CRYSTAL DISPLAY PANEL

• SEGMENT



• COMMON



Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- $\triangle$: internal component.
- $B+$: B+ line.
- Power voltage is dc 4.5V and fed with regulated dc power supply from external power voltage jack.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark: FM
(): AM (MW/LW)
(|): OFF mode
- Voltages are taken with a VOM. (Input impedance $10\text{M}\Omega$)
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 $\Rightarrow$: FM

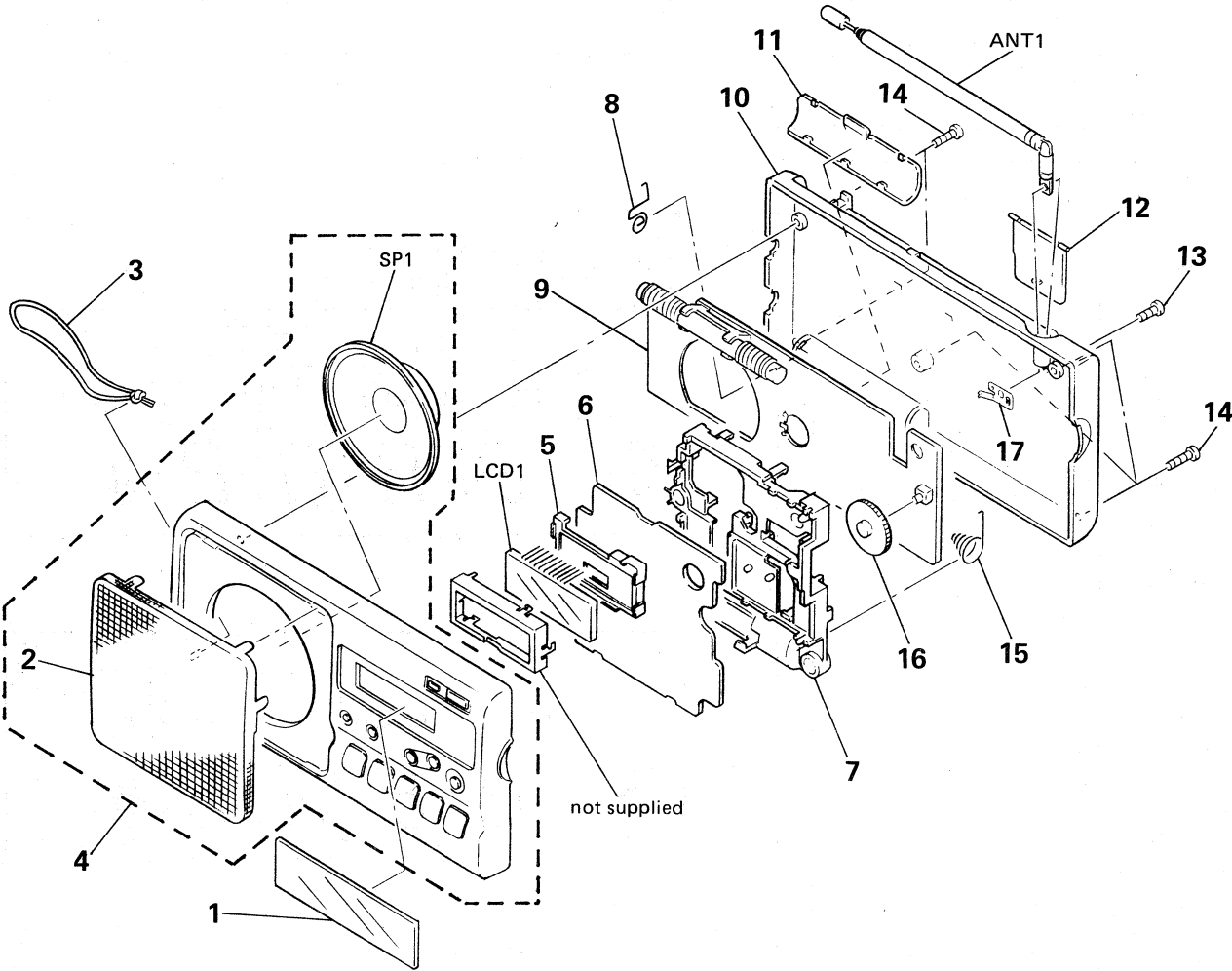
SECTION 4 EXPLODED VIEW

NOTE:

- -XX,-X mean standardized parts, so they may have some difference from the original one.
- Color indication of Appearance Parts.
Example:
KNOB,BALANCE (WHITE) ... (RED)

Parts Color Cabinet's Color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.



Ref. No.	Part No.	Description	Remark
1	3-380-334-01	WINDOW... (BLACK)	
1	3-380-334-11	WINDOW... (WHITE)	
2	3-380-340-01	NET, SPEAKER... (BLACK)	
2	3-380-340-11	NET, SPEAKER... (WHITE)	
3	3-902-226-01	STRAP, HAND	
4	X-3365-466-1	CABINET (FRONT) ASSY... (BLACK)	
4	X-3365-467-1	CABINET (FRONT) ASSY... (WHITE)	
5	3-380-336-01	HOLDER (LCD)	
* 6	A-3679-394-A	DISPLAY BOARD, COMPLETE	
* 7	3-380-329-01	CHASSIS	
8	3-380-341-01	SPRING (+), BATTERY COIL	
* 9	A-3679-393-A	MAIN BOARD, COMPLETE	
10	3-380-328-01	CABINET (REAR) ... (BLACK)	
10	3-380-328-11	CABINET (REAR) ... (WHITE)	

Ref. No.	Part No.	Description	Remark
11	3-899-907-21	LID, BATTERY CASE... (BLACK)	
11	3-899-907-31	LID, BATTERY CASE... (WHITE)	
12	3-380-335-01	STAND... (BLACK)	
12	3-380-335-11	STAND... (WHITE)	
13	3-370-475-01	SCREW (NYLOCK +B 3X6)	
14	7-685-649-79	SCREW +P 3X14 TYPE2 NON-SLIT	
15	3-380-343-01	SPRING (-), BATTERY COIL	
16	3-380-333-01	KNOB... (BLACK)	
16	3-380-333-11	KNOB... (WHITE)	
17	3-380-339-01	PLATE (ANT), CONTACT	
ANT1	1-501-362-11	ANTENNA, TELESCOPIC	
LCD1	1-809-735-11	DISPLAY PANEL, LIQUID CRYSTAL	
SP1	1-544-756-11	SPEAKER (7CM)	

DISPLAY

SECTION 5 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A... uPA...: μ PA...
uPB...: μ PB... uPC...: μ PC... uPD...: μ PD...
• CAPACITORS
uF: μ F
• COILS
uH: μ H

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	A-3679-394-A	DISPLAY BOARD, COMPLETE	
	3-380-336-01	HOLDER (LCD)	
		< CAPACITOR >	
C101	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C102	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C103	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C104	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C105	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C106	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C107	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C108	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C109	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C110	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C111	1-163-106-00	CERAMIC CHIP 36PF	5% 50V
C112	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C113	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C114	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C115	1-163-033-00	CERAMIC CHIP 0.022uF	50V
C116	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C117	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C118	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C119	1-163-059-00	CERAMIC CHIP 0.01uF	10% 50V
C120	1-124-576-11	ELECT 220uF	20% 4V
C121	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V
C122	1-164-346-11	CERAMIC CHIP 1uF	16V
C123	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C124	1-164-006-11	CERAMIC CHIP 0.33uF	10% 16V
C125	1-126-160-11	ELECT 1uF	20% 50V
C126	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C127	1-124-434-00	ELECT 220uF	20% 4V
C128	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C129	1-163-100-00	CERAMIC CHIP 20PF	5% 50V
C130	1-163-077-00	CERAMIC CHIP 0.1uF	10% 25V
C131	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C132	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C133	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C134	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C135	1-164-232-11	CERAMIC CHIP 0.01uF	50V

Ref. No.	Part No.	Description	Remark
C136	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C137	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C138	1-163-033-00	CERAMIC CHIP 0.022uF	50V
C139	1-164-346-11	CERAMIC CHIP 1uF	16V
C140	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C141	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C142	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C143	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C144	1-163-088-00	CERAMIC CHIP 5PF	50V
C145	1-163-038-00	CERAMIC CHIP 0.1uF	25V
		< DIODE >	
D101	8-719-400-18	DIODE MA152WK	
D102	8-719-400-18	DIODE MA152WK	
D103	8-719-400-18	DIODE MA152WK	
D104	8-719-400-18	DIODE MA152WK	
D105	8-719-911-19	DIODE 1SS119	
D106	8-719-921-80	DIODE MTZJ-11B	
D107	8-719-400-18	DIODE MA152WK	
		< IC >	
IC101	8-759-084-66	IC uPD1724GB-598-1A7	
IC102	8-759-945-21	IC S-8052ANB-NE-S	
		< COIL >	
L101	1-410-336-11	INDUCTOR 220uH	
L102	1-410-336-11	INDUCTOR 220uH	
L103	1-414-142-31	INDUCTOR 1uH	
		< LIQUID CRYSTAL DISPLAY >	
LCD1	1-809-735-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< TRANSISTOR >	
Q101	8-729-117-83	TRANSISTOR 2SK160A-K25	
Q102	8-729-117-83	TRANSISTOR 2SK160A-K25	
Q103	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q104	8-729-100-66	TRANSISTOR 2SC1623	
Q105	8-729-100-66	TRANSISTOR 2SC1623	
Q106	8-729-102-07	TRANSISTOR 2SC2223-F13	
Q107	8-729-102-07	TRANSISTOR 2SC2223-F13	

SECTION 5
ELECTRICAL PARTS LIST

DISPLAY

DISPLAY

MAIN

Standardization, replacements in
list may be different from the
specified in the diagrams or the
used on the set.
mean standardized parts, so
there is some difference from the
e.
s are in ohms.
-film resistor.
Metal oxide-film resistor.
ole

- Items marked "*" are not stocked since
they are seldom required for routine service.
Some delay should be anticipated
when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A... uPA...: μ PA...
uPB...: μ PB... uPC...: μ PC... uPD...: μ PD...
- CAPACITORS
uF: μ F
- COILS
uH: μ H

When indicating parts by
reference number, please
include the board.

No.	Description	Remark	Ref. No.	Part No.	Description	Remark
0-394-A	DISPLAY BOARD, COMPLETE *****		C136	1-163-038-00	CERAMIC CHIP 0.1uF	25V
0-336-01	HOLDER (LCD)		C137	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
	< CAPACITOR >		C138	1-163-033-00	CERAMIC CHIP 0.022uF	50V
1-129-00	CERAMIC CHIP 330PF	5% 50V	C139	1-164-346-11	CERAMIC CHIP 1uF	16V
1-129-00	CERAMIC CHIP 330PF	5% 50V	C140	1-163-038-00	CERAMIC CHIP 0.1uF	25V
1-129-00	CERAMIC CHIP 330PF	5% 50V				
1-129-00	CERAMIC CHIP 330PF	5% 50V	C141	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
1-129-00	CERAMIC CHIP 330PF	5% 50V	C142	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
1-129-00	CERAMIC CHIP 330PF	5% 50V	C143	1-164-232-11	CERAMIC CHIP 0.01uF	50V
1-129-00	CERAMIC CHIP 330PF	5% 50V	C144	1-163-088-00	CERAMIC CHIP 5PF	50V
1-129-00	CERAMIC CHIP 330PF	5% 50V	C145	1-163-038-00	CERAMIC CHIP 0.1uF	25V
1-106-00	CERAMIC CHIP 36PF	5% 50V		< DIODE >		
1-097-00	CERAMIC CHIP 15PF	5% 50V	D101	8-719-400-18	DIODE MA152WK	
1-232-11	CERAMIC CHIP 0.01uF	50V	D102	8-719-400-18	DIODE MA152WK	
1-109-00	CERAMIC CHIP 47PF	5% 50V	D103	8-719-400-18	DIODE MA152WK	
1-033-00	CERAMIC CHIP 0.022uF	50V	D104	8-719-400-18	DIODE MA152WK	
1-038-00	CERAMIC CHIP 0.1uF	25V				
1-038-00	CERAMIC CHIP 0.1uF	25V	D105	8-719-911-19	DIODE 1SS119	
1-232-11	CERAMIC CHIP 0.01uF	50V	D106	8-719-921-80	DIODE MTZJ-11B	
1-059-00	CERAMIC CHIP 0.01uF	10% 50V	D107	8-719-400-18	DIODE MA152WK	
1-576-11	ELECT 220uF	20% 4V		< IC >		
1-141-00	CERAMIC CHIP 0.001uF	5% 50V	IC101	8-759-084-66	IC uPD1724GB-598-1A7	
1-346-11	CERAMIC CHIP 1uF	16V	IC102	8-759-945-21	IC S-8052ANB-NE-S	
1-133-00	CERAMIC CHIP 470PF	5% 50V		< COIL >		
1-006-11	CERAMIC CHIP 0.33uF	10% 16V	L101	1-410-336-11	INDUCTOR 220uH	
1-160-11	ELECT 1uF	20% 50V	L102	1-410-336-11	INDUCTOR 220uH	
			L103	1-414-142-31	INDUCTOR 1uH	
1-038-00	CERAMIC CHIP 0.1uF	25V		< LIQUID CRYSTAL DISPLAY >		
1-434-00	ELECT 220uF	20% 4V	LCD1	1-809-735-11	DISPLAY PANEL, LIQUID CRYSTAL	
1-232-11	CERAMIC CHIP 0.01uF	50V		< TRANSISTOR >		
1-100-00	CERAMIC CHIP 20PF	5% 50V	Q101	8-729-117-83	TRANSISTOR 2SK160A-K25	
1-077-00	CERAMIC CHIP 0.1uF	10% 25V	Q102	8-729-117-83	TRANSISTOR 2SK160A-K25	
			Q103	8-729-107-46	TRANSISTOR 2SC3624A-L15	
1-232-11	CERAMIC CHIP 0.01uF	50V	Q104	8-729-100-66	TRANSISTOR 2SC1623	
1-232-11	CERAMIC CHIP 0.01uF	50V				
1-232-11	CERAMIC CHIP 0.01uF	50V	Q105	8-729-100-66	TRANSISTOR 2SC1623	
1-232-11	CERAMIC CHIP 0.01uF	50V	Q106	8-729-102-07	TRANSISTOR 2SC2223-F13	
1-232-11	CERAMIC CHIP 0.01uF	50V	Q107	8-729-102-07	TRANSISTOR 2SC2223-F13	

Ref. No.	Part No.	Description	Remark
		< RESISTOR >	
R101	1-216-049-00	METAL CHIP 1K 5%	1/10W
R102	1-216-049-00	METAL CHIP 1K 5%	1/10W
R103	1-216-025-00	METAL CHIP 100 5%	1/10W
R104	1-216-025-00	METAL CHIP 100 5%	1/10W
R105	1-216-089-00	METAL CHIP 47K 5%	1/10W
R106	1-216-001-00	METAL CHIP 10 5%	1/10W
R107	1-216-075-00	METAL CHIP 12K 5%	1/10W
R108	1-216-121-00	METAL CHIP 1M 5%	1/10W
R109	1-216-095-00	METAL CHIP 82K 5%	1/10W
R110	1-216-073-00	METAL CHIP 10K 5%	1/10W
R111	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R112	1-216-069-00	METAL CHIP 6.8K 5%	1/10W
R113	1-216-067-00	METAL CHIP 5.6K 5%	1/10W
R114	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R115	1-216-073-00	METAL CHIP 10K 5%	1/10W
R116	1-216-049-00	METAL CHIP 1K 5%	1/10W
R117	1-216-097-00	METAL CHIP 100K 5%	1/10W
R118	1-216-097-00	METAL CHIP 100K 5%	1/10W
R119	1-216-689-11	METAL CHIP 39K 0.5%	1/10W
R120	1-216-067-00	METAL CHIP 5.6K 5%	1/10W
R121	1-216-067-00	METAL CHIP 5.6K 5%	1/10W
R122	1-216-067-00	METAL CHIP 5.6K 5%	1/10W
R123	1-216-067-00	METAL CHIP 5.6K 5%	1/10W
R124	1-216-067-00	METAL CHIP 5.6K 5%	1/10W
R125	1-216-067-00	METAL CHIP 5.6K 5%	1/10W
R126	1-216-067-00	METAL CHIP 5.6K 5%	1/10W
R127	1-216-097-00	METAL CHIP 100K 5%	1/10W
R128	1-216-097-00	METAL CHIP 100K 5%	1/10W
R129	1-216-097-00	METAL CHIP 100K 5%	1/10W
R130	1-216-097-00	METAL CHIP 100K 5%	1/10W
R131	1-216-097-00	METAL CHIP 100K 5%	1/10W
R132	1-216-097-00	METAL CHIP 100K 5%	1/10W
R133	1-216-097-00	METAL CHIP 100K 5%	1/10W
R134	1-216-097-00	METAL CHIP 100K 5%	1/10W
R135	1-216-097-00	METAL CHIP 100K 5%	1/10W
R136	1-216-097-00	METAL CHIP 100K 5%	1/10W
R137	1-216-097-00	METAL CHIP 100K 5%	1/10W
R138	1-216-097-00	METAL CHIP 100K 5%	1/10W
R139	1-216-097-00	METAL CHIP 100K 5%	1/10W
R140	1-216-097-00	METAL CHIP 100K 5%	1/10W
R141	1-216-097-00	METAL CHIP 100K 5%	1/10W
R142	1-216-097-00	METAL CHIP 100K 5%	1/10W
R143	1-216-097-00	METAL CHIP 100K 5%	1/10W
R144	1-216-041-00	METAL CHIP 470 5%	1/10W
R145	1-216-095-00	METAL CHIP 82K 5%	1/10W

Ref. No.	Part No.	Description	Remark
R146	1-216-025-00	METAL CHIP 100 5%	1/10W
R147	1-216-083-00	METAL CHIP 27K 5%	1/10W
R148	1-216-025-00	METAL CHIP 100 5%	1/10W
R160	1-216-295-00	METAL CHIP 0 5%	1/10W
R161	1-216-295-00	METAL CHIP 0 5%	1/10W
R162	1-216-073-00	METAL CHIP 10K 5%	1/10W
R163	1-216-295-00	METAL CHIP 0 5%	1/10W
R164	1-216-295-00	METAL CHIP 0 5%	1/10W
R165	1-216-295-00	METAL CHIP 0 5%	1/10W
		< SWITCH >	
S101	1-571-760-11	SWITCH, KEY BOARD (5 (PRESET TUNING))	
S102	1-571-760-11	SWITCH, KEY BOARD (1 (PRESET TUNING))	
S103	1-571-760-11	SWITCH, KEY BOARD (POWER)	
S104	1-571-760-11	SWITCH, KEY BOARD (BAND/STANDBY)	
S105	1-571-760-11	SWITCH, KEY BOARD (2 (PRESET TUNING))	
S106	1-571-760-11	SWITCH, KEY BOARD (ALARM)	
S107	1-571-760-11	SWITCH, KEY BOARD (- (TUNE/TIME))	
S108	1-571-760-11	SWITCH, KEY BOARD (3 (PRESET TUNING))	
S109	1-571-760-11	SWITCH, KEY BOARD (CLOCK/ENTER)	
S110	1-571-760-11	SWITCH, KEY BOARD (+ (TUNE/TIME))	
S111	1-571-760-11	SWITCH, KEY BOARD (4 (PRESET TUNING))	
S112	1-572-596-21	SWITCH, KEY BOARD (KEY PROTECT)	
		< TRANSFORMER >	
T101	1-449-138-61	TRANSFORMER, DC-DC CONVERTER	
		< VIBRATOR >	
X101	1-567-769-11	VIBRATOR, CRYSTAL (75KHz)	

*	A-3679-393-A	MAIN BOARD, COMPLETE *****	
		< BAND PASS >	
BPF1	1-236-711-21	FILTER, BAND PASS	
		< CAPACITOR >	
C1	1-163-141-00	CERAMIC CHIP 0.001uF 5%	50V
C3	1-163-141-00	CERAMIC CHIP 0.001uF 5%	50V
C4	1-163-141-00	CERAMIC CHIP 0.001uF 5%	50V
C5	1-131-374-00	TANTALUM 33uF 10%	16V
C6	1-163-077-00	CERAMIC CHIP 0.1uF 10%	25V

Ref. No.	Part No.	Description	Remark
C7	1-163-227-11	CERAMIC CHIP 10PF 5%	50V
C8	1-163-104-00	CERAMIC CHIP 30PF 5%	50V
C9	1-163-141-00	CERAMIC CHIP 0.001uF 5%	50V
C10	1-163-141-00	CERAMIC CHIP 0.001uF 5%	50V
C11	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C15	1-163-104-00	CERAMIC CHIP 30PF 5%	50V
C16	1-163-114-00	CERAMIC CHIP 75PF 5%	50V
C22	1-163-220-11	CERAMIC CHIP 3PF	50V
C24	1-163-033-00	CERAMIC CHIP 0.022uF	50V
C25	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C26	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C27	1-163-132-00	CERAMIC CHIP 430PF 5%	50V
C28	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C29	1-163-088-00	CERAMIC CHIP 5PF	50V
C30	1-163-263-11	CERAMIC CHIP 330PF 5%	50V
C31	1-163-217-11	CERAMIC CHIP 1PF 0.25PF	50V
C32	1-163-075-00	CERAMIC CHIP 0.047uF	50V
C33	1-126-157-11	ELECT 10uF 20%	16V
C34	1-126-157-11	ELECT 10uF 20%	16V
C35	1-126-163-11	ELECT 4.7uF 20%	50V
C36	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C37	1-163-077-00	CERAMIC CHIP 0.1uF 10%	25V
C38	1-126-935-11	ELECT 470uF 20%	16V
C39	1-126-162-11	ELECT 3.3uF 20%	50V
C40	1-163-809-11	CERAMIC CHIP 0.047uF 10%	25V
C41	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C43	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C44	1-163-809-11	CERAMIC CHIP 0.047uF 10%	25V
C45	1-126-163-11	ELECT 4.7uF 20%	50V
C46	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C47	1-162-638-11	CERAMIC CHIP 1uF	16V
C48	1-104-483-91	ELECT 470uF 20%	4V
C49	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C50	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C52	1-164-004-11	CERAMIC CHIP 0.1uF 10%	25V
C53	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C55	1-124-471-00	ELECT 1000uF 20%	6.3V
C57	1-163-017-00	CERAMIC CHIP 0.047uF 10%	50V
C60	1-124-434-00	ELECT 220uF 20%	4V
C61	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C62	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C65	1-163-986-00	CERAMIC CHIP 0.027uF 10%	25V
C70	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C73	1-163-031-11	CERAMIC CHIP 0.01uF	50V
C75	1-102-973-00	CERAMIC 100PF 5%	50V
C76	1-102-973-00	CERAMIC 100PF 5%	50V

Ref. No.	Part No.	Description	Remark
< FILTER >			
CF1	1-579-265-81	FILTER, CERAMIC	
CF2	1-579-265-81	FILTER, CERAMIC	
CF3	1-567-777-11	FILTER, CERAMIC	
CF4	1-579-265-81	FILTER, CERAMIC	
< CONNECTOR >			
* CN101	1-506-989-11	PIN, CONNECTOR (PC BOARD) 7P	
* CN102	1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P	
< JACK >			
CNJ1	1-563-836-21	JACK (EARPHONE)	
CNJ2	1-695-153-11	JACK, EXTERNAL POWER (DC IN 4.5V)	
< TRIMMER >			
CT1	1-141-304-21	CAP, TRIMMER 10PF	
CT2	1-141-304-21	CAP, TRIMMER 10PF	
CT3	1-141-443-11	TRIMMER, CERAMIC	
CT4	1-141-304-21	CAP, TRIMMER 10PF	
CT5	1-141-443-11	TRIMMER, CERAMIC	
< DIODE >			
D1	8-719-911-19	DIODE 1SS119	
D3	8-719-911-19	DIODE 1SS119	
D7	8-719-949-46	DIODE 1T32	
D8	8-719-949-46	DIODE 1T32	
D13	8-719-980-71	DIODE SVC342L-V	
D16	8-719-911-19	DIODE 1SS119	
D20	8-719-400-18	DIODE MA152WK	
< IC >			
IC1	8-759-605-77	IC CXA1019M-T1	
IC2	8-759-982-73	IC BA10393F	
IC3	8-759-939-41	IC S-81230AG-RB	
IC4	8-759-800-27	IC LA5003	
< COIL >			
L3	1-460-339-11	COIL (WITH CORE) (FM-RF)	
L4	1-459-837-11	COIL (WITH CORE)	
L8	1-402-622-11	ANTENNA, FERRITE-ROD (LW/MW)	
L11	1-406-489-11	COIL (OSC)	
L12	1-410-294-11	INDUCTOR, MICRO	
L13	1-410-294-11	INDUCTOR, MICRO	
< TRANSISTOR >			
Q1	8-729-823-22	TRANSISTOR 2SC3576	
Q2	8-729-901-01	TRANSISTOR DTC144EK	
Q3	8-729-823-22	TRANSISTOR 2SC3576	
Q4	8-729-123-85	TRANSISTOR 2SK238-K15	

MAIN

Ref. No.	Part No.	Description	Remark
Q5	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q7	8-729-102-07	TRANSISTOR 2SC2223-F13	
Q8	8-729-901-01	TRANSISTOR DTC144EK	
Q9	8-729-216-22	TRANSISTOR 2SA1162	
Q10	8-729-141-48	TRANSISTOR 2SB624-BV345	
Q11	8-729-901-01	TRANSISTOR DTC144EK	
Q12	8-729-900-51	TRANSISTOR DTA114TK	
< RESISTOR >			
R2	1-216-097-00	METAL CHIP 100K 5%	1/10W
R3	1-216-097-00	METAL CHIP 100K 5%	1/10W
R4	1-216-081-00	METAL CHIP 22K 5%	1/10W
R5	1-216-097-00	METAL CHIP 100K 5%	1/10W
R6	1-216-097-00	METAL CHIP 100K 5%	1/10W
R7	1-216-083-00	METAL CHIP 27K 5%	1/10W
R8	1-216-029-00	METAL CHIP 150 5%	1/10W
R9	1-216-097-00	METAL CHIP 100K 5%	1/10W
R10	1-216-049-00	METAL CHIP 1K 5%	1/10W
R11	1-216-097-00	METAL CHIP 100K 5%	1/10W
R12	1-216-025-00	METAL CHIP 100 5%	1/10W
R14	1-216-049-00	METAL CHIP 1K 5%	1/10W
R15	1-216-097-00	METAL CHIP 100K 5%	1/10W
R16	1-216-073-00	METAL CHIP 10K 5%	1/10W
R17	1-216-097-00	METAL CHIP 100K 5%	1/10W
R18	1-216-105-00	METAL CHIP 220K 5%	1/10W
R19	1-216-045-00	METAL CHIP 680 5%	1/10W
R20	1-216-121-00	METAL CHIP 1M 5%	1/10W
R25	1-216-037-00	METAL CHIP 330 5%	1/10W
R26	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R27	1-216-035-00	METAL CHIP 270 5%	1/10W
R28	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R29	1-216-049-00	METAL CHIP 1K 5%	1/10W
R30	1-216-049-00	METAL CHIP 1K 5%	1/10W
R31	1-216-081-00	METAL CHIP 22K 5%	1/10W
R32	1-216-049-00	METAL CHIP 1K 5%	1/10W
R33	1-216-025-00	METAL CHIP 100 5%	1/10W
R34	1-216-015-00	METAL CHIP 39 5%	1/10W
R35	1-216-073-00	METAL CHIP 10K 5%	1/10W
R36	1-216-025-00	METAL CHIP 100 5%	1/10W
R37	1-216-109-00	METAL CHIP 330K 5%	1/10W
R38	1-216-105-00	METAL CHIP 220K 5%	1/10W
R39	1-216-073-00	METAL CHIP 10K 5%	1/10W
R40	1-216-089-00	METAL CHIP 47K 5%	1/10W
R41	1-216-025-00	METAL CHIP 100 5%	1/10W
R42	1-216-049-00	METAL CHIP 1K 5%	1/10W
R43	1-216-113-00	METAL CHIP 470K 5%	1/10W
R49	1-216-059-00	METAL CHIP 2.7K 5%	1/10W
R50	1-216-001-00	METAL CHIP 10 5%	1/10W
R55	1-216-296-00	METAL CHIP 0 5%	1/8W

Ref. No.	Part No.	Description	Remark
R56	1-216-295-00	METAL CHIP 0 5%	1/10W
R57	1-216-295-00	METAL CHIP 0 5%	1/10W
R58	1-216-296-00	METAL CHIP 0 5%	1/8W
R59	1-216-296-00	METAL CHIP 0 5%	1/8W
R60	1-216-295-00	METAL CHIP 0 5%	1/10W
R61	1-216-295-00	METAL CHIP 0 5%	1/10W
R62	1-216-295-00	METAL CHIP 0 5%	1/10W
R63	1-216-295-00	METAL CHIP 0 5%	1/10W
R64	1-216-022-00	METAL CHIP 75 5%	1/10W
R65	1-216-295-00	METAL CHIP 0 5%	1/10W
R66	1-216-295-00	METAL CHIP 0 5%	1/10W

< VARIABLE RESISTOR >

RV2 1-238-650-11 RES, VAR, CARBON 10K (VOL)

< TRANSFORMER >

T1 1-404-789-21 TRANSFORMER, IF

MISCELLANEOUS

ANT1 1-501-362-11 ANTENNA, TELESCOPIC
 SP1 1-544-756-11 SPEAKER (7CM)

ACCESSORIES & PACKING MATERIALS

1-501-499-11 COUPLER, ANTENNA
 (Models for Switzerland and Belgium)
 * 3-381-310-01 INDIVIDUAL CARTON
 3-755-441-11 MANUAL, INSTRUCTION (ENGLISH/FRENCH/
 GERMAN/DUTCH/ITALIAN)